

reviewed and revised form stored at 240. Each separate field in one form is compared to its counterpart in the other form to see if the user made any changes.

[000106] At step 1302, with respect to each field: A test is performed at step 1304 to see if the user made any changes to the field. If no changes were made, then the system tests whether the fuzzy logic entry is unchanged. If a fuzzy logic entry is unchanged, then a new rule is added to the dictionary database 1000 (steps 1306 and 1308). If the unchanged entry was from an existing rule, then the system skips ahead to look for any more fields to compare (step 1306). If a user change did take place, then the corresponding tentative rule contained in the database 228 is corrected, if possible, so as to complete the form as the user has done (steps 1310 and 1308). This correction can be made if the literal value entered by the user can be found, and its non-personal identifier or symbolic name determined, by scanning the user's data in the wallet database 1100. If the rule cannot be corrected (step 1310), then the rule is discarded (step 1308 is skipped). If there was no user change, or if a corrected rule can be generated, then the tentative or corrected rule is transferred from the temporary storage at 228 to the dictionary 1000 and is linked to the name of the form within the dictionary (step 1308). Finally, at step 1314, the fuzzy logic system 226 receives positive or negative feedback on its performance in generating each rule that it generated. If a rule cannot be corrected, then the system asks if fuzzy logic provided the rule (step 1312). If so, fuzzy logic is given feedback. If not, no feedback is given to fuzzy logic. This feedback alters the fuzzy logic system so that in the future it performs in a slightly different manner, de-emphasizing the possibility of making the wrong choice it just made in the future, and perhaps generating a correct rule the next time.

[000107] Note that while some of the tentative rules and some corrected rules are added to the dictionary data base 1000, the document entry in the dictionary will still be disabled to force continued use of the fuzzy logic 226 the next time this same form is encountered until the dictionary 1000 contains confirmed rules for all of the fields in this form.

[000108] At step 1316, if there are any more fields to be checked, program control returns to the step 1304. Otherwise, the form fill system 200 returns program control to the form fill proxy 400 and suspends execution.

[000109] While the invention has been described with specific embodiments, other alternatives, modifications and variations will be apparent to those skilled in the art. Accordingly, it is intended to include all such alternatives, modifications and variations set forth within the spirit and scope of the appended claims.

reviewed and revised form stored at 240. Each separate field in one form is compared to its counterpart in the other form to see if the user made any changes.

[000106] At step 1302, with respect to each field: A test is performed at step 1304 to see if the user made any changes to the field. If no changes were made, then the system tests whether the fuzzy logic entry is unchanged. If a fuzzy logic entry is unchanged, then a new rule is added to the dictionary database 1000 (steps 1306 and 1308). If the unchanged entry was from an existing rule, then the system skips ahead to look for any more fields to compare (step 1306). If a user change did take place, then the corresponding tentative rule contained in the database 228 is corrected, if possible, so as to complete the form as the user has done (steps 1310 and 1308). This correction can be made if the literal value entered by the user can be found, and its non-personal identifier or symbolic name determined, by scanning the user's data in the wallet database 1100. If the rule cannot be corrected (step 1310), then the rule is discarded (step 1308 is skipped). If there was no user change, or if a corrected rule can be generated, then the tentative or corrected rule is transferred from the temporary storage at 228 to the dictionary 1000 and is linked to the name of the form within the dictionary (step 1308). Finally, at step 1314, the fuzzy logic system 226 receives positive or negative feedback on its performance in generating each rule that it generated. If a rule cannot be corrected, then the system asks if fuzzy logic provided the rule (step 1312). If so, fuzzy logic is given feedback. If not, no feedback is given to fuzzy logic. This feedback alters the fuzzy logic system so that in the future it performs in a slightly different manner, de-emphasizing the possibility of making the wrong choice it just made in the future, and perhaps generating a correct rule the next time.

[000107] Note that while some of the tentative rules and some corrected rules are added to the dictionary data base 1000, the document entry in the dictionary will still be disabled to force continued use of the fuzzy logic 226 the next time this same form is encountered until the dictionary 1000 contains confirmed rules for all of the fields in this form.

[000108] At step 1316, if there are any more fields to be checked, program control returns to the step 1304. Otherwise, the form fill system 200 returns program control to the form fill proxy 400 and suspends execution.

[000109] While the invention has been described with specific embodiments, other alternatives, modifications and variations will be apparent to those skilled in the art. Accordingly, it is intended to include all such alternatives, modifications and variations set forth within the spirit and scope of the appended claims.